

Introduction to the Translation Game

Complete the following chart to review key words in verbal phrases and their corresponding mathematical symbols.

Operation	Verbal Phrase	Algebraic Expression
_____	<ul style="list-style-type: none">• The sum of five and a number• Six more than a number• A number increased by four• A number plus eight	_____ _____ _____ _____
_____	<ul style="list-style-type: none">• The difference of five and a number• Six less than a number• A number decreased by four• A number minus eight	_____ _____ _____ _____
_____	<ul style="list-style-type: none">• The product of five and a number• Six times a number• A number multiplied by eight	_____ _____ _____
_____	<ul style="list-style-type: none">• The quotient of five and a number• Six divided by a number• The quotient of a number and eight	_____ _____
_____	<ul style="list-style-type: none">• The square of a number• The cube of a number	_____ _____

Translation Game

Phrase	Answer
The sum of a number and three	$n + 3$
The sum of five times a number and seven	$5n + 7$
The sum of twice a number and twenty-seven	$2n + 27$
Twice the sum of a number and twenty-seven	$2(n + 27)$
Eight less than six times a number	$6n - 8$
Five times the difference of a number and six	$5(n - 6)$

The quotient of a number and eight	$n / 8$
Five less than the quotient of a number divided by nine	$\frac{n}{9} - 5$
The sum of seventeen and the quotient of a number divided by 8	$17 + n/8$
A number decreased by nine	$n - 9$
Twice the difference of a number and six	$2 (n - 6)$
Five times the difference of 12 and a number	$5 (12 - n)$

Nine more than the square of a number	$9 + n^2$
The difference of two and the cube of a number	$2 - n^3$
The square of the sum of a number and four	$(n + 4)^2$
Twice the cube of a number	$2 (n^3)$
The square of the product of a number and three	$(3n)^2$

